



GI360™; stool

Suggestions for your consideration.

As always, consult with your health care professional. With Love & Hope, Dr. Amy



Order: 210618-0353



Client #: 38596

Regenerus Laboratories Ltd
Aero 14, Redhill Aerodome, Kings Mill Ln
Redhill Surrey, RH1 5YP
United Kingdom

Patient: Alex Maclean

Id: P211690274

Age: 24 DOB: 09/19/1996

Sex: Male

Sample Collection

Date/Time

Date Collected

06/13/2021

Date Received

06/18/2021

Date Reported

06/28/2021

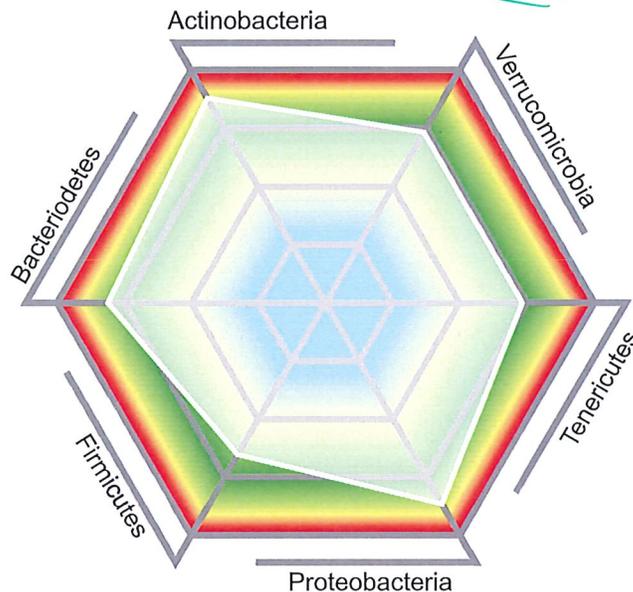
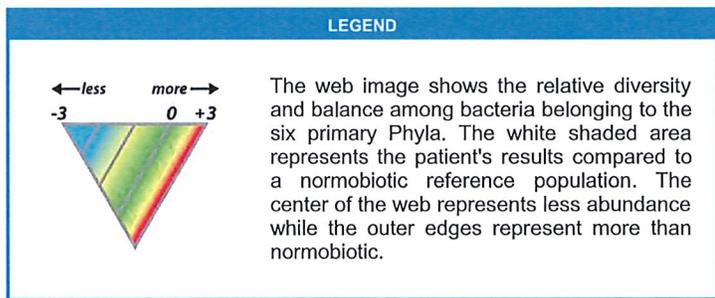
Specimens Collected

3

DEFER to your doctor as always

Microbiome Abundance and Diversity Summary

The abundance and diversity of gastrointestinal bacteria provide an indication of gastrointestinal health, and gut microbial imbalances can contribute to dysbiosis and other chronic disease states. The GI360™ Microbiome Profile is a gut microbiota DNA analysis tool that identifies and characterizes more than 45 targeted analytes across six Phyla using PCR and compares the patient results to a characterized normobiotic reference population. The web chart illustrates the degree to which an individual's microbiome profile deviates from normobiosis.



Dysbiosis Index

The Dysbiosis Index (DI) is calculated strictly from the results of the Microbiome Profile, with scores from 1 to 5. A DI score above 2 indicates dysbiosis; a microbiota profile that differs from the defined normobiotic reference population. The higher the DI above 2, the more the sample deviates from the normobiotic profile. The dysbiosis test and DI does not include consideration of dysbiotic and pathogenic bacteria, yeast, parasites and viruses that may be reported in subsequent sections of the GI360™ test.



Key Findings

Dialister invisus, Very High



Salmonella spp., Detected

Dialister invisus & *Megasphaera micronuciformis*, Very High



Secretory IgA, Low

Eubacterium hallii, Very Low



Faecalibacterium prausnitzii, Very Low



Lachnospiraceae, Very Low



Ruminococcus gnavus, Very High



Robatz from HttI probiotic list

+ Lactobacillus + Cilantro

Mega IgG 2000 + T and B cell caps



Microbiome Bacterial Abundance; Multiplex PCR

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based on your doctor

LEGEND



Results are graphed as deviations from a normobiotic population. Normobiosis or a normobiotic state characterizes a composition of the microbiota profile in which microorganisms with potential health benefits predominate in abundance and diversity over potentially harmful ones.



oxygen or cook with oxygen

Notes:

The gray-shaded area of the bar graph represents reference values outside the reporting limits for this test.

*This test was developed and its performance characteristics determined by Doctor's Data Laboratories in a manner consistent with CLIA requirements. The U. S. Food and Drug Administration (FDA) has not approved or cleared this test; however, FDA clearance is not currently required for clinical use. The results are not intended to be used as a sole means for clinical diagnosis or patient management decisions.

Methodology: Multiplex PCR



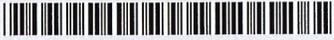
Microbiome Bacterial Abundance; Multiplex PCR

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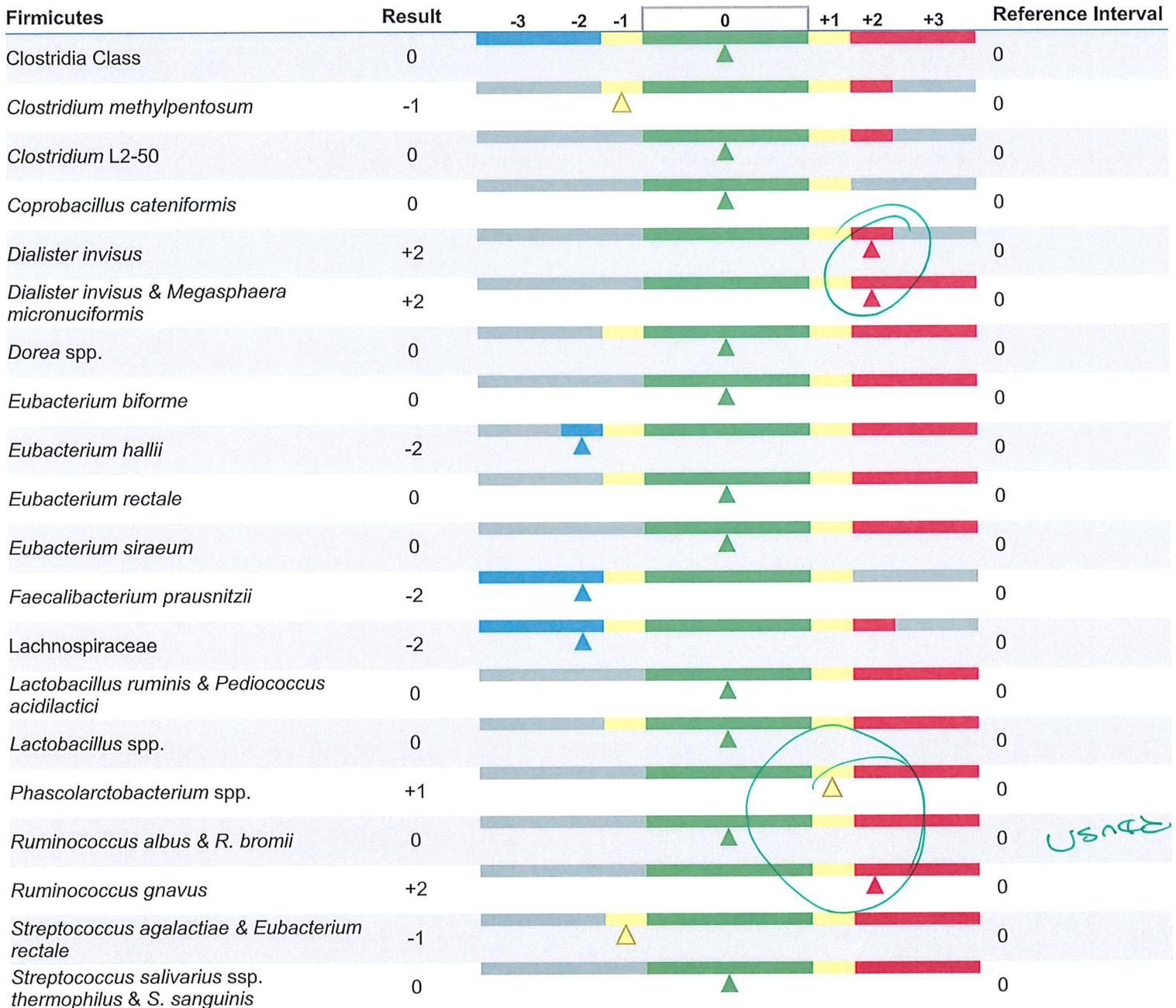
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Methodology: Multiplex PCR

Refer to your doctor



Microbiome Bacterial Abundance; Multiplex PCR

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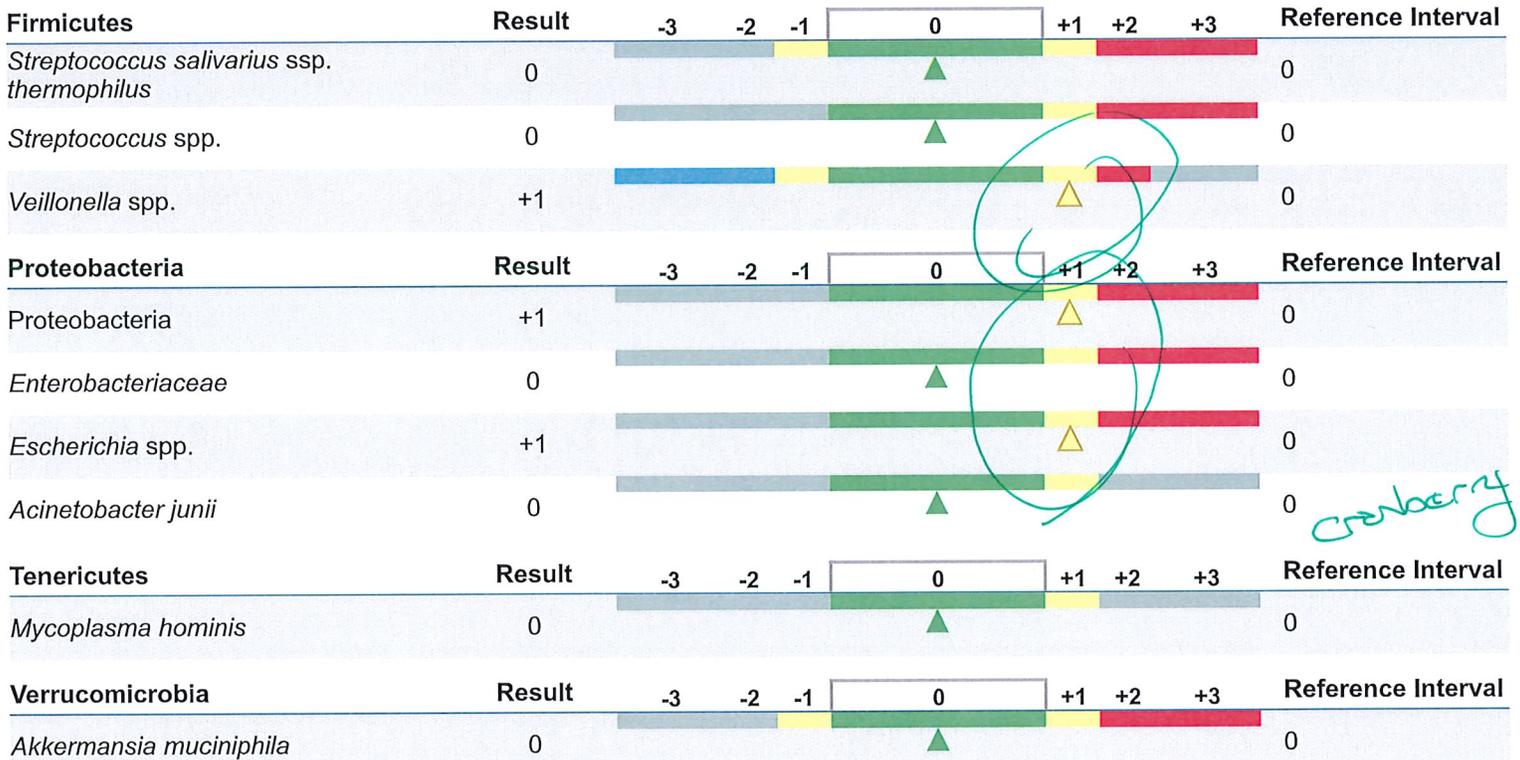
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Microbiome Abundance Information:

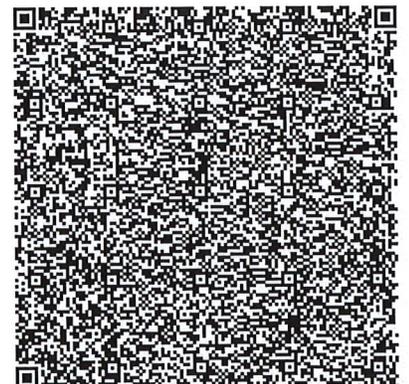
- The GI360™ Microbiome Profile is a focused gut microbiota DNA analysis tool that identifies more than 45 targeted analytes across six phyla using a CE-marked multiplex PCR system. Patient results are compared to a highly defined normobiotic reference population (n > 1,100). The white shadowed web plot within the hexagonal diagram illustrates the degree to which an individual's microbiome profile deviates from normobiosis. The center of the diagram represents less bacterial abundance while the outer edges represent greater than normobiosis. Deviation from a hexagon-shaped plot indicates variant diversity of the microbial community. Key findings for patient's microbiome profile are summarized in the table below the diagram, and detailed results for all of the analytes are presented on the next 3 pages of the report. Detailed results for the specific bacteria are reported as -3 to +3 standard deviations, as compared to the normobiotic reference population.

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Methodology: Multiplex PCR





GI Pathogens; Multiplex PCR

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Viruses	Result	
Adenovirus F40/41	Negative	<input type="checkbox"/>
Norovirus GI/GII	Negative	<input type="checkbox"/>
Rotavirus A	Negative	<input type="checkbox"/>
Pathogenic Bacteria	Result	
<i>Campylobacter</i> (<i>C. jejuni</i> , <i>C. coli</i> and <i>C. lari</i>)	Negative	<input type="checkbox"/>
<i>Clostridioides difficile</i> (Toxin A/B)	Negative	<input type="checkbox"/>
<i>Escherichia coli</i> O157	Negative	<input type="checkbox"/>
Enterotoxigenic <i>Escherichia coli</i> (ETEC) lt/st	Negative	<input type="checkbox"/>
<i>Salmonella</i> spp.	Positive	<input checked="" type="checkbox"/>
Shiga-like toxin-producing <i>Escherichia coli</i> (STEC) stx1/stx2	Negative	<input type="checkbox"/>
<i>Shigella</i> (<i>S. boydii</i> , <i>S. sonnei</i> , <i>S. flexneri</i> & <i>S. dysenteriae</i>)	Negative	<input type="checkbox"/>
<i>Vibrio cholerae</i>	Negative	<input type="checkbox"/>
Parasites	Result	
<i>Cryptosporidium</i> (<i>C. parvum</i> and <i>C. hominis</i>)	Negative	<input type="checkbox"/>
<i>Entamoeba histolytica</i>	Negative	<input type="checkbox"/>
<i>Giardia duodenalis</i> (AKA <i>intestinalis</i> & <i>lamblia</i>)	Negative	<input type="checkbox"/>

LactoScan
+
eat culture is
to be tested

Refer to
your
doctor



Notes:

Methodology: Multiplex PCR



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Protozoa

Result

<i>Balantidium coli</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Blastocystis spp.</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Chilomastix mesnili</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Dientamoeba fragilis</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Endolimax nana</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Entamoeba coli</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Entamoeba hartmanni</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Entamoeba histolytica/Entamoeba dispar</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Entamoeba polecki</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Enteromonas hominis</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Giardia duodenalis</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Iodamoeba bütschlii</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Isospora belli</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Pentatrichomonas hominis</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Retortamonas intestinalis</i>	Not Detected	<input checked="" type="checkbox"/>

Cestodes - Tapeworms

Result

<i>Diphyllobothrium latum</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Dipylidium caninum</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Hymenolepis diminuta</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Hymenolepis nana</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Taenia</i>	Not Detected	<input checked="" type="checkbox"/>

good

Trematodes - Flukes

Result

<i>Clonorchis sinensis</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Fasciola hepatica/Fasciolopsis buski</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Heterophyes heterophyes</i>	Not Detected	<input checked="" type="checkbox"/>
<i>Paragonimus westermani</i>	Not Detected	<input checked="" type="checkbox"/>

Nematodes - Roundworms

Result

<i>Ascaris lumbricoides</i>	Not Detected	<input checked="" type="checkbox"/>
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Notes:

Methodology: Microscopy



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Specimens Collected 3

Nematodes - Roundworms

Table with 3 columns: Parasite Name, Result, and Status. Rows include Capillaria hepatica, Capillaria philippinensis, Enterobius vermicularis, Hookworm, Strongyloides stercoralis, and Trichuris trichiura. All results are 'Not Detected' with green toggle switches.

Handwritten note: good

Other Markers

Table with 4 columns: Marker Name, Result, Status, and Reference Interval. Rows include Yeast, RBC, WBC, Muscle fibers, Vegetable fibers, Charcot-Leyden Crystals, and Pollen.

Macroscopic Appearance

Table with 4 columns: Appearance, Result, Status, and Reference Interval. Rows include Color (Brown), Consistency (Soft), and Mucus (Negative).



Parasitology Information:

- This test is not designed to detect Cyclospora cayetanensis or Microsporidia spp.
Intestinal parasites are abnormal inhabitants of the gastrointestinal tract that have the potential to cause damage to their host.
There are two main classes of intestinal parasites, they include protozoa and helminths.

Notes:

Methodology: Microscopy, Macroscopic Observation



Parasitology; Microscopy

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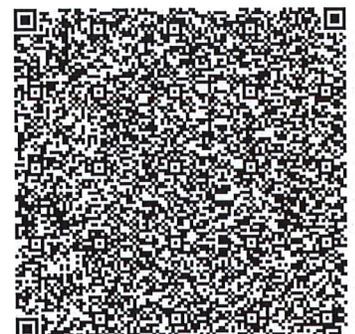
Specimens Collected

3



Parasitology Information:

- In general, acute manifestations of parasitic infection may involve diarrhea with or without mucus and or blood, fever, nausea, or abdominal pain. However these symptoms do not always occur. Consequently, parasitic infections may not be diagnosed or eradicated. If left untreated, chronic parasitic infections can cause damage to the intestinal lining and can be an unsuspected cause of illness and fatigue. Chronic parasitic infections can also be associated with increased intestinal permeability, irritable bowel syndrome, irregular bowel movements, malabsorption, gastritis or indigestion, skin disorders, joint pain, allergic reactions, and decreased immune function.
- In some instances, parasites may enter the circulation and travel to various organs causing severe organ diseases such as liver abscesses and cysticercosis. In addition, some larval migration can cause pneumonia and in rare cases hyper infection syndrome with large numbers of larvae being produced and found in every tissue of the body.
- **Red Blood Cells (RBC)** in the stool may be associated with a parasitic or bacterial infection, or an inflammatory bowel condition such as ulcerative colitis. Colorectal cancer, anal fistulas, and hemorrhoids should also be ruled out.
- **White Blood Cells (WBC)** and **Mucus** in the stool can occur with bacterial and parasitic infections, with mucosal irritation, and inflammatory bowel diseases such as Crohn's disease or ulcerative colitis
- **Muscle fibers** in the stool are an indicator of incomplete digestion. Bloating, flatulence, feelings of "fullness" may be associated with increase in muscle fibers.
- **Vegetable fibers** in the stool may be indicative of inadequate chewing, or eating "on the run".





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Table with 5 columns: Pathogenic Bacteria, Result, NG, 1+, 2+, 3+, 4+, Reference Interval. Rows include Aeromonas spp., Edwardsiella tarda, Plesiomonas shigelloides, Salmonella group, Shigella group, Vibrio cholerae, Vibrio spp., Yersinia spp., Imbalance Bacteria (Klebsiella pneumoniae, Streptococcus parasanguinis, Streptococcus salivarius/vestibularis), and Yeast (No yeast isolated).

GI 360 Microbiology Information:

- Pathogenic bacteria consist of known pathogenic bacteria that can cause disease in the GI tract. They are present due to the consumption of contaminated food or water, exposure to animals, fish, or amphibians known to harbor the organism. These organisms can be detected by either Multiplex PCR or microbiology culture.
Imbalanced bacteria are usually neither pathogenic nor beneficial to the host GI tract. Imbalances can occur when there are insufficient levels of beneficial bacteria and increased levels of commensal bacteria. Certain commensal bacteria are reported as dysbiotic at higher levels.
Yeast may normally be present in small quantities on the skin, in the mouth and intestine. While small quantities of yeast may be normal, yeast observed in higher quantities is considered abnormal.

Handwritten notes in green ink: 'Dear to your own doctor on all suggestions', 'Juniper + xylitol + UVA UVA?', 'GSE'.

Notes: NG = No Growth

Methodology: Culture and identification by MALDI-TOF and conventional biochemicals





Stool Chemistries

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Digestion / Absorption	Result	Unit	L	WRI	H	Reference Interval
Elastase	218	µg/mL		▲		> 200
Fat Stain	None		▲			None – Few
Carbohydrates [†]	Negative			▲		Negative
Inflammation	Result	Unit	L	WRI	H	Reference Interval
Lactoferrin	1.1	µg/mL	▲			< 7.3
Lysozyme*	276	ng/mL		▲		≤ 500
Calprotectin	<5	µg/g	▲			≤ 50
Immunology	Result	Unit	L	WRI	H	Reference Interval
Secretory IgA*	22.5	mg/dL		▲		30 – 275
Short Chain Fatty Acids	Result	Unit	L	WRI	H	Reference Interval
% Acetate [‡]	63	%		▲		50 – 72
% Propionate [‡]	20	%		▲		11 – 25
% Butyrate [‡]	16	%		▲		11 – 32
% Valerate [‡]	1.9	%		▲		0.8 – 5.0
Butyrate [‡]	2.3	mg/mL		▲		0.8 – 4.0
Total SCFA's [‡]	15	mg/mL		▲		5.0 – 16.0
Intestinal Health Markers	Result	Unit	L	WRI	H	Reference Interval
pH	6.0			▲		5.8 – 7.0
β-glucuronidase*	583	U/L		▲		100 – 1200
Occult Blood	Negative			▲		Negative

+ SDE



Chemistry Information:

- **Elastase** findings can be used for the diagnosis or the exclusion of exocrine pancreatic insufficiency. Correlations between low levels and chronic pancreatitis and cancer have been reported.

DeSo to your own doctor

Notes:

RI= Reference Interval, L (blue)= Low (below RI), WRI (green)= within RI, Yellow= moderately outside RI, L or H, H (red)= High (above RI)

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†This test has been modified from the manufacturer's instructions and its performance characteristics determined by Doctor's Data Laboratories in a manner consistent with CLIA requirements.

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Methodology: Elisa, Microscopy, Colormetric, Gas Chromatography, pH Electrode, Guaiac